

Patent Number(s): JP52129798-A

Title: Polyester prodn. esp. polyethylene terephthalate with fewer ether-gps. - by esterifying in the presence of e.g. titanium cpd. and then adding alkoxide of antimony and/or germanium and polycondensing

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Derwent Primary Accession Number: 1977-88839Y [50]

Patents Cited by Inventor: 0

Citing Patents: 0

Articles Cited by Inventor: 0

Patents Cited by Examiner: 0

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Abstract:

Prodn. comprises continuously reacting a slurry of terephthalic acid contg. ethylene glycol in a molar ratio 1.05-1.8. Reaction is at 230-270 degrees C under atmospheric pressure - 7 kg/cm²-G until 80-94% of the residual gps. of acid remain. Reaction mixt is fed to a second reactor a d allowed to react at 250 degrees C-280 degrees C and atmospheric pressure -200 mmHg-ab until >95% of the residual acid gps. are esterified.

Esterification is conducted in the presence of 1 of Ti Mg and Co cpds. and then antimony alloxide and/or germanium alkoxide are added to the esterified material, followed by subjecting the whole mixture to polycondensation, to obtain the corresp. polyester.

Process is esp. for prodn. of polyethylene terephthalate contg. relatively fewer ether-linkages with high whiteness.

International Patent Classification: C08G-063/22

Derwent Class: A23 (Polyamides, polyesters, polycarbonates, alkyds)

Derwent Manual Code(s): A02-A06; A02-A07; A02-A07A; A05-E04A

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